ABSTRACT OF THE INVENTION

A method and apparatus for balancing I/Q gain and I/Q phase in a signal receiver. The receiver includes an IQ coefficient calculator and an IQ balancer. The IQ coefficient calculator computes a set of correction coefficients for each packet from the I and Q signals in an IQ measurement section at the front of the packet. The IQ balancer uses the correction coefficients for correcting the I/Q gain and I/Q phase errors on a packet-by-packet basis. Optionally, delay devices delay the I and Q signals so that the correction coefficients may be applied to the entire packet, or the portion of the packet in the IQ measurement section is passed through uncorrected and the correction coefficients are applied to the packet after the IQ measurement section.